MONTHLY LETIN BUL

OF

# THE OBSERVATORY

## AMERICAN UNIVERSITY OF BEIRUT

BEIRUT, LEBANON

LAT. 33° 54' 22" N.

LONG. E. FROM GREENWICH 35° 28' 10"

September 1949

ROBERT W. SLOANE, DIRECTOR

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WEATHER BUREAU

# SEPTEMBER 1949

## METEOROLOGICAL REGISTER

| Date | Barometer reduced to O°C Sea level and 45° Latitude 700 mm. +... | | | | Thermometer Degrees Centigrade | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 14:30 | 20:30 | Mean | Max. | Min. | 8:30 | 14:30 | 20:30 | Mean |
| 1 | 57.6 | 57.0 | 56.8 | 57.1 | 32.8 | 22.7 | 29.4 | 31.9 | 24.9 | 28.7 |
| 2 | 57.0 | 56.3 | 56.6 | 56.6 | 32.1 | 22.7 | 29.0 | 31.9 | 24.4 | 28.4 |
| 3 | 56.7 | 56.3 | 56.9 | 56.6 | 31.5 | 22.3 | 27.9 | 31.2 | 24.4 | 27.8 |
| 4 | 57.5 | 57.1 | 57.7 | 57.4 | 31.4 | 22.1 | 27.5 | 31.1 | 25.0 | 27.9 |
| 5 | 57.5 | 56.6 | 56.7 | 56.9 | 31.1 | 21.6 | 27.0 | 30.2 | 24.5 | 27.2 |
| 6 | 55.9 | 55.1 | 55.5 | 55.5 | 30.5 | 23.3 | 27.1 | 29.3 | 25.1 | 27.2 |
| 7 | 55.2 | 55.1 | 55.9 | 55.4 | 29.9 | 20.7 | 24.4 | 28.3 | 24.4 | 25.7 |
| 8 | 56.4 | 57.0 | 58.5 | 57.3 | 27.9 | 20.7 | 24.8 | 27.6 | 23.3 | 25.2 |
| 9 | 59.6 | 59.8 | 60.3 | 59.9 | 28.8 | 21.1 | 25.3 | 28.2 | 23.3 | 25.6 |
| 10 | 61.0 | 60.2 | 60.5 | 60.6 | 30.0 | 22.4 | 26.6 | 28.8 | 24.4 | 26.6 |
| 11 | 61.3 | 60.4 | 60.3 | 60.7 | 30.0 | 20.9 | 27.9 | 29.4 | 23.8 | 27.0 |
| 12 | 59.1 | 57.7 | 57.2 | 58.0 | 30.4 | 21.3 | 26.5 | 29.7 | 23.4 | 26.5 |
| 13 | 56.1 | 56.3 | 57.3 | 56.6 | 29.9 | 20.9 | 26.2 | 28.7 | 24.3 | 26.4 |
| 14 | 58.2 | 58.3 | 59.2 | 58.6 | 29.0 | 20.7 | 25.2 | 27.8 | 23.1 | 25.4 |
| 15 | 60.4 | 60.5 | 60.8 | 60.6 | 29.0 | 21.1 | 26.3 | 27.9 | 22.7 | 25.6 |
| 16 | 61.5 | 60.6 | 60.8 | 60.9 | 29.3 | 21.1 | 26.0 | 28.6 | 22.9 | 25.8 |
| 17 | 60.2 | 59.3 | 59.8 | 59.8 | 30.1 | 21.1 | 26.7 | 29.4 | 23.3 | 26.5 |
| 18 | 60.4 | 59.5 | 60.1 | 60.0 | 29.2 | 22.3 | 26.2 | 28.8 | 24.6 | 26.5 |
| 19 | 60.3 | 59.4 | 60.2 | 60.0 | 29.2 | 21.4 | 24.9 | 28.8 | 23.8 | 25.8 |
| 20 | 59.1 | 59.0 | 59.8 | 59.0 | 30.4 | 23.1 | 26.8 | 29.5 | 24.6 | 27.0 |
| 21 | 60.5 | 60.2 | 60.7 | 60.5 | 29.5 | 21.3 | 26.8 | 28.3 | 23.5 | 26.2 |
| 22 | 60.6 | 59.5 | 59.3 | 59.8 | 29.3 | 21.0 | 25.3 | 29.0 | 23.2 | 25.8 |
| 23 | 58.5 | 57.2 | 57.3 | 57.7 | 29.5 | 21.1 | 25.7 | 29.3 | 23.9 | 26.3 |
| 24 | 57.0 | 56.9 | 57.9 | 57.3 | 29.5 | 21.0 | 26.1 | 28.7 | 22.9 | 25.9 |
| 25 | 58.6 | 58.5 | 59.0 | 58.7 | 29.2 | 20.8 | 25.4 | 29.2 | 22.7 | 25.8 |
| 26 | 60.5 | 59.9 | 60.1 | 60.2 | 29.5 | 20.7 | 25.5 | 28.8 | 23.8 | 26.0 |
| 27 | 60.5 | 60.0 | 60.5 | 60.3 | 28.9 | 21.1 | 25.6 | 28.3 | 22.8 | 25.6 |
| 28 | 60.3 | 60.0 | 60.9 | 60.4 | 28.8 | 21.3 | 25.0 | 28.3 | 22.9 | 25.4 |
| 29 | 60.5 | 59.9 | 60.3 | 60.2 | 27.6 | 18.3 | 24.9 | 26.7 | 22.2 | 24.6 |
| 30 | 59.6 | 59.3 | 60.7 | 59.9 | 26.7 | 18.9 | 23.3 | 25.5 | 20.1 | 22.9 |
| 31 | | | | | | | | | | |
| | 58.92 | 58.43 | 58.92 | 58.75 | 29.70 | 21.30 | 26.18 | 28.97 | 23.61 | 26.24 |

Barometer, range for month 761.5 mm. — 755.1 mm.

,, 71-yr. average for month 758.74 mm.

Thermometer, range for month 32.8°C — 18.3°C

,, 71-yr. average for month 27.21°C.

Rain, total for month 21. 85mm.

,, 71-yrs. average for month 6.19 mm.

,, Tolal, Sept. 1st. to end of month 21.85 mm

,, 71-yr. average, Sept. 1st. to end of month 6.19 mm.

# SEPTEMBER 1949

## METEOROLOGICAL REGISTER

| Date | Pressure of Water Vapor Millibare | | | | Relative Humidity per cent. | | | | sun. | Wind per day | Rain |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 14:30 | 20:30 | Mean | 8:30 | 14:30 | 20:30 | Mean | Hrs. | Kms. | m.m. |
| 1 | 24.5 | 25.7 | 22.4 | 24.2 | 59 | 54 | 71 | 61 | 11.6 | 108.0 | |
| 2 | 22.8 | 24.6 | 22.0 | 23.1 | 57 | 52 | 72 | 60 | 11.7 | 74.0 | |
| 3 | 24.4 | 27.6 | 24.1 | 25.4 | 66 | 61 | 78 | 68 | 11.5 | 28.0 | |
| 4 | 26.5 | 27.6 | 26.3 | 26.8 | 72 | 61 | 83 | 72 | 10.7 | 113.0 | |
| 5 | 25.9 | 27.4 | 24.8 | 26.0 | 72 | 63 | 81 | 72 | 10.8 | 241.0 | |
| 6 | 24.2 | 25.0 | 23.2 | 24.1 | 66 | 61 | 71 | 66 | 9.0 | 536.0 | |
| 7 | 25.0 | 25.0 | 20.2 | 23.4 | 82 | 64 | 66 | 71 | 7.9 | 818.0 | 0.51 |
| 8 | 22.6 | 23.5 | 21.2 | 22.4 | 71 | 64 | 74 | 70 | 4.9 | 781.0 | 7.87 |
| 9 | 22.1 | 26.1 | 22.4 | 23.5 | 69 | 68 | 78 | 72 | 9.1 | 124.0 | 0.51 |
| 10 | 23.3 | 25.7 | 24.0 | 24.3 | 66 | 64 | 78 | 69 | 10.0 | 536.0 | |
| 11 | 22.4 | 25.2 | 23.5 | 23.7 | 59 | 61 | 78 | 66 | 10.0 | 195.0 | |
| 12 | 23.3 | 24.8 | 23.0 | 23.7 | 66 | 58 | 80 | 68 | 10.0 | 183.0 | |
| 13 | 23.0 | 26.3 | 22.2 | 23.8 | 69 | 67 | 72 | 69 | 8.3 | 406.0 | |
| 14 | 21.6 | 23.7 | 21.7 | 22.3 | 67 | 63 | 76 | 69 | 6.8 | 211.0 | |
| 15 | 22.4 | 24.4 | 20.9 | 22.6 | 66 | 65 | 76 | 69 | 9.7 | 130.0 | |
| 16 | 21.1 | 22.3 | 21.2 | 21.5 | 62 | 57 | 77 | 65 | 9.8 | 40.0 | |
| 17 | 21.4 | 26.7 | 24.6 | 24.2 | 61 | 64 | 86 | 70 | 9.7 | 37.0 | |
| 18 | 25.7 | 26.7 | 24.6 | 25.7 | 76 | 67 | 79 | 74 | 7.5 | 27.0 | |
| 19 | 22.6 | 25.7 | 24.8 | 24.4 | 71 | 65 | 83 | 73 | 9.5 | 105.0 | |
| 20 | 23.3 | 28.4 | 28.0 | 26.6 | 66 | 70 | 90 | 75 | 9.5 | 594.0 | |
| 21 | 24.6 | 27.5 | 24.0 | 25.4 | 70 | 71 | 82 | 74 | 9.5 | 68.0 | |
| 22 | 24.8 | 25.5 | 24.0 | 24.8 | 76 | 64 | 84 | 75 | 9.4 | 69.0 | |
| 23 | 26.5 | 26.9 | 24.0 | 25.8 | 80 | 66 | 80 | 75 | 9.1 | 137.0 | |
| 24 | 24.5 | 17.1 | 23.2 | 21.6 | 72 | 65 | 84 | 74 | 9.3 | 72.0 | |
| 25 | 24.1 | 25.0 | 22.7 | 23.9 | 74 | 62 | 81 | 72 | 9.4 | 84.0 | |
| 26 | 24.1 | 25.7 | 23.9 | 24.6 | 73 | 64 | 80 | 72 | 7.0 | 163.0 | |
| 27 | 22.8 | 23.8 | 21.5 | 22.7 | 70 | 61 | 71 | 67 | 7.3 | 21.0 | |
| 28 | 21.0 | 21.9 | 22.0 | 21.6 | 66 | 56 | 78 | 67 | 6.9 | 103.0 | |
| 29 | 20.7 | 20.0 | 21.6 | 20.8 | 64 | 57 | 80 | 67 | 8.4 | 219.0 | 0.51 |
| 30 | 18.3 | 18.9 | 19.0 | 18.7 | 64 | 58 | 79 | 67 | 6.8 | 293.0 | 12.45 |
| 31 | | | | | | | | | | | |
| | 23.32 | 24.82 | 23.03 | 23.72 | 68.4 | 62.4 | 78.3 | 69.7 | 9.04 | 218.20 | 0.73 |

Height of Barometer above sea level: 33.7 meters.

„ „ Thermometers above ground:

Dry and wet 1.55 m.; Max. 1.75 m.; Min. 1.70 m.

Rim of Rain Gauge: above ground 0.56 m.; above sea level 30.31 m.

Time of reading minus 2 hours equal G.C.T.

71year averages are for period, 1875-1945

# SEPTEMBER 1949
## METEOROLOGICAL REGISTER

| Date | Clouds clear—0 Overcast—10 | | | | Direction and force of wind Beaufort scale | | | Sea | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | 8.30 | 14:30 | 20:30 | Mean | 8:30 | 14:30 | 20:30 | | |
| 1 | 0 | 0 | 0 | 0.0 | 1ne | 1n | 1n | light | |
| 2 | 0 | 0 | 0 | 0.0 | 1n | 2n | 0 | „ | |
| 3 | 0 | 0 | 0 | 0.0 | 1sw | 1nw | 0 | „ | |
| 4 | 0 | 2cu | 0 | 0.7 | 1sw | 1sw | 0 | „ | |
| 5 | 3cu | 1cu | 0 | 1.3 | 2w | 2w | 1w | light | |
| 6 | 1cu | 3cu | 4cu | 2.7 | 3sw | 4w | 2sw | slight | |
| 7 | 8cu-ni | 5cu | 5cu | 6.0 | 4sw | 3sw | 3w | „ | Tr., p.m.; W. |
| 8 | 8cu-ni | 8cu | 6cu | 7.3 | 5sw | 4sw | 4sw | rough | W., all day |
| 9 | 8cu | 7cu | 4cu | 6.3 | 3sw | 3sw | 1sw | mod. | Tr., p.m. |
| 10 | 0 | 0 | 0 | 0.0 | 1ne | 2n | 3n | light | |
| 11 | 0 | 0 | 0 | 0.0 | 2ne | 2ne | 1ne | slight | |
| 12 | 0 | 0 | 0 | 0.0 | 2w | 2w | 1w | light | Good visibility |
| 13 | 0 | 5cu | 4st-cu | 3.0 | 3sw | 3sw | 2sw | slight | |
| 14 | 8st | 5cu | 2cu | 5.0 | 2sw | 3sw | 0 | light | Tr., p.m. |
| 15 | 0 | 2cu | 2ci | 1.3 | 2sw | 2nw | 1w | light | |
| 16 | 0 | 0 | 0 | 0.0 | 1sw | 1nw | 0 | light | Good visibility |
| 17 | 0 | 2cu | 0 | 0.7 | 1sw | 1sw | 1sw | calm | |
| 18 | 1cu | 1cu | 8st | 3.1 | 1sw | 1nw | 1sw | „ | |
| 19 | 9st | 0 | 9st-ci | 6.0 | 1sw | 1nw | 1nw | „ | |
| 20 | 0 | 0 | 0 | 0.0 | 1ne | 3ne | 3ne | slight | |
| 21 | 0 | 0 | 0 | 0.0 | 2nw | 1nw | 0 | light | |
| 22 | 0 | 2st | 3st-ci | 1.7 | 1w | 2w | 0 | „ | |
| 23 | 2cu | 3cu | 3cu | 2.7 | 1sw | 2sw | 1sw | „ | |
| 24 | 3cu | 1cu | 0 | 1.3 | 1sw | 2sw | 0 | „ | |
| 25 | 1cu | 0 | 0 | 0.3 | 1sw | 2nw | 0 | light | |
| 26 | 0 | 0 | 0 | 0.0 | 1s | 1ne | 1nw | light | |
| 27 | 1cu | 0 | 0 | 0.3 | 1ne | 1nw | 0 | „ | Excellent visibility |
| 28 | 8cu-st | 2cu | 0 | 3.3 | 1sw | 1sw | 0 | „ | |
| 29 | 4cu | 3cu | 2cu | 3.0 | 1sw | 3sw | 1sw | slight | |
| 30 | 1cu | 8cu | 3cu | 4.0 | 4sw | 3sw | 2sw | „ | |
| 31 | | | | | | | | | |
| | | | | 2.00 | | | | | |

Abbreviations :— G = gale; H = haze; M = mist; T = thunderstorm; D = dew.
W = strong wind; Tr = trace of rain

### Number of Daily Wind Observations

| Time | N | NE | E | SE | S | SW | W | NW | Calm | Totals |
|---|---|---|---|---|---|---|---|---|---|---|
| 8:30 | 1 | 5 | 0 | 0 | 1 | 19 | 3 | 1 | 0 | 30 |
| 14:30 | 3 | 3 | 0 | 0 | 0 | 11 | 5 | 8 | 0 | 30 |
| 20:30 | 2 | 2 | 0 | 0 | 0 | 9 | 4 | 2 | 11 | 30 |
| Total | 6 | 10 | 0 | 0 | 1 | 39 | 12 | 11 | 11 | 90 |

Number of days with rain 5, fog 0, thunderstorms 0, gale 0.

71 yr. av. number of days with rain during month 1.13